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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

|                        |                     |
|------------------------|---------------------|
| Attorney Docket No.    | 56029/41936         |
| First Inventor         | Mueckler et al.     |
| Title                  | Cell-Free Assay for |
| Express Mail Label No. | EV328618922US       |

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2.  Applicant claims small entity status.  
See 37 CFR 1.27.
3.  Specification [Total Pages 36]  
(preferred arrangement set forth below)
  - Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 11]
5. Oath or Declaration [Total Sheets       ]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)
    - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.  Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:**  
Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

7.  CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a.  Computer Reader Form (CRF)
  - b. Specification Sequence Listing on:
    - i.  CD-ROM or CD-R (2 copies); or
    - ii.  Paper
- c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))
10.  37 CFR 3.73(b) Statement  Power of (when there is an assignee)  Attorney
11.  English Translation Document (if applicable)  Copies of IDS Statement (IDS)/PTO-1449 Citations
12.  Information Disclosure Statement (IDS)/PTO-1449
13.  Preliminary Amendment
14.  Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15.  Certified Copy of Priority Document(s) (if foreign priority is claimed)
16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17.  Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

Continuation     Divisional     Continuation-in-part (CIP)    of prior application No.: .....

Prior application information: Examiner \_\_\_\_\_ Art Unit: \_\_\_\_\_

For CONTINUATION OF DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

Customer Number: 021888    **OR**  Correspondence address below

|          |                                       |           |              |
|----------|---------------------------------------|-----------|--------------|
| Name     | Daniel S. Kasten                      |           |              |
| Address  | Thompson Coburn LLP, #1 US Bank Plaza |           |              |
| City     | St. Louis                             | State     | MO           |
| Country  | U.S.A.                                | Telephone | 314-552-6305 |
| Zip Code | 63101                                 |           |              |
| Fax      | 314-552-7305                          |           |              |

|                   |                         |                                   |        |
|-------------------|-------------------------|-----------------------------------|--------|
| Name (Print/Type) | Daniel S. Kasten        | Registration No. (Attorney/Agent) | 45,363 |
| Signature         | <u>Daniel S. Kasten</u> |                                   |        |
|                   | Date                    | July 16, 2003                     |        |

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

03508 U.S. PTO  
10/621485  
07/16/03



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# FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$540.00)

## Complete if Known

|                      |                 |
|----------------------|-----------------|
| Application Number   | N/A             |
| Filing Date          | 07/16/03        |
| First Named Inventor | Mueckler et al. |
| Examiner Name        | N/A             |
| Group Art Unit       | N/A             |
| Attorney Docket No.  | 56029/41936     |

## METHOD OF PAYMENT

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

|                        |         |
|------------------------|---------|
| Deposit Account Number | 20-0823 |
| Deposit Account Name   |         |

Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17.  
 Applicant claims small entity status. See 37 CFR 1.27

2.  Payment Enclosed:

Check  Credit Card  Money Order  Other

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

| Fee Code                  | Large Entity Fee (\$) | Fee Code | Small Entity Fee (\$) | Fee Description                                                            | Fee Paid |
|---------------------------|-----------------------|----------|-----------------------|----------------------------------------------------------------------------|----------|
| 105                       | 130                   | 205      | 65                    | Surcharge - late filing fee or oath                                        |          |
| 127                       | 50                    | 227      | 25                    | Surcharge - late provisional filing fee or cover sheet                     |          |
| 139                       | 130                   | 139      | 130                   | Non-English specification                                                  |          |
| 147                       | 2,520                 | 147      | 2,520                 | For filing a request for ex parte reexamination                            |          |
| 112                       | 920*                  | 112      | 920*                  | Requesting publication of SIR prior to Examiner action                     |          |
| 113                       | 1,840*                | 113      | 1,840*                | Requesting publication of SIR after Examiner action                        |          |
| 115                       | 110                   | 215      | 55                    | Extension for reply within first month                                     |          |
| 116                       | 400                   | 216      | 200                   | Extension for reply within second month                                    |          |
| 117                       | 920                   | 217      | 460                   | Extension for reply within third month                                     |          |
| 118                       | 1,440                 | 218      | 720                   | Extension for reply within fourth month                                    |          |
| 128                       | 1,960                 | 228      | 980                   | Extension for reply within fifth month                                     |          |
| 119                       | 320                   | 219      | 160                   | Notice of Appeal                                                           |          |
| 120                       | 320                   | 220      | 160                   | Filing a brief in support of an appeal                                     |          |
| 121                       | 280                   | 221      | 140                   | Request for oral hearing                                                   |          |
| 138                       | 1,510                 | 138      | 1,510                 | Petition to institute a public use proceeding                              |          |
| 140                       | 110                   | 240      | 55                    | Petition to revive - unavoidable                                           |          |
| 141                       | 1,280                 | 241      | 640                   | Petition to revive - unintentional                                         |          |
| 142                       | 1,280                 | 242      | 640                   | Utility issue fee (or reissue)                                             |          |
| 143                       | 460                   | 243      | 230                   | Design issue fee                                                           |          |
| 144                       | 620                   | 244      | 310                   | Plant issue fee                                                            |          |
| 122                       | 130                   | 122      | 130                   | Petitions to the Commissioner                                              |          |
| 123                       | 50                    | 123      | 50                    | Processing fee under 37 CFR 1.17(q)                                        |          |
| 126                       | 180                   | 126      | 180                   | Submission of Information Disclosure Stmt                                  |          |
| 581                       | 40                    | 581      | 40                    | Recording each patent assignment per property (times number of properties) |          |
| 146                       | 740                   | 246      | 370                   | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 149                       | 740                   | 249      | 370                   | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 179                       | 740                   | 279      | 370                   | Request for Continued Examination (RCE)                                    |          |
| 169                       | 900                   | 169      | 900                   | Request for expedited examination of a design application                  |          |
| Other fee (specify) _____ |                       |          |                       |                                                                            |          |

SUBTOTAL (1) (\$ 375.00)

## 2. EXTRA CLAIM FEES

| Total Claims       | 29 | -20** = | 9 | X | 9  | = | 81 |
|--------------------|----|---------|---|---|----|---|----|
| Independent Claims | 5  | -3** =  | 2 | X | 42 | = | 84 |
| Multiple Dependent |    |         |   |   | 0  | = | 0  |

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description                                            |
|----------------|-----------------|----------------|-----------------|------------------------------------------------------------|
| 103            | 18              | 203            | 9               | Claims in excess of 20                                     |
| 102            | 84              | 202            | 42              | Independent claims in excess of 3                          |
| 104            | 280             | 204            | 140             | Multiple dependent claim, if not paid                      |
| 109            | 84              | 209            | 42              | ** Reissue independent claims over original patent         |
| 110            | 18              | 210            | 9               | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 165.00)

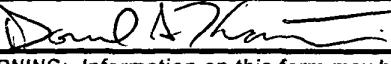
\*or number previously paid, if greater; For Reissues, see above

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0)

## SUBMITTED BY

## Complete (if applicable)

|                   |                                                                                     |                                   |        |           |               |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------------|--------|-----------|---------------|
| Name (Print/Type) | Daniel S. Kasten                                                                    | Registration No. (Attorney/Agent) | 45,363 | Telephone | 314-552-6305  |
| Signature         |  |                                   |        | Date      | July 16, 2003 |

WARNING: Information on this form may become public. Credit Card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC